Catalytic polymerization of ...

24747 S/191/61/000/007/005/010 B101/B215

was successful with the use of both acids and lyes as catalysts. solubility was not reduced during polymerization, then gel formation occurred. It was found that polyalumino-phenyl cyclosiloxane in the presence of 1 % of NaOH at 120°C polymerizes much more quickly (gel formation within 9 hr, viscosity of the 10 % solution in toluene: 1.9) than polyphenyl cyclosiloxane (gel formation after 15 hr; viscosity: 2.64). Polyalumino-ethyl cyclosiloxane polymerized already after 7 hr, and polyalumino-phenylmethyl cyclosiloxane after 3 hr. In the presence of 1 %of ethyl sulfuric acid, the polymerization of polyalumino-phenyl cyclosiloxane at 120°C took place even more quickly than in the presence of NaOH: gel formation set in after 2 hr, and the relative viscosity increased from 1.45 to 3.91. The polymerization of alumino-organocyclosiloxene takes place gradually by precipitation of gel-forming particles. The chemical composition of the gel differs only little from that of the soluble portion of the polymer. The infrared spectra before and after polymerization showed differences only in the region of the 1060-1115 cm-1 band which corresponds to the Si-O bond. The maximum of this band is shifted toward higher values. It is concluded that the polymerization is initiated by the opening of cycles and formation of cross-linked polymer molecules with a marked structure. There are 1 table and 3 Soviet-bloc references. Card 2/2

ANIRIAMOV, K.A.; DZHENCHEL'SKAYA, S.I.; PETRASHKO, Yu.K.

New polymers, products of the catalytic polymerization of organosilozanes. Plast.massy no.3:20-23 '60.

(Polymers) (S:loxanes)

(Polymers) (S:loxanes)

87654

15.8116

s/191/60/000/003/005/013 B016/B054

AUTHORS:

Andrianov, K. A., Dzhenchel'skaya, S. I., Petrashko, Yu.K.

TITLE:

New Polymers of Catalytic Polymerization of Organo-

siloxanes

PERIODICAL:

Plasticheskiye massy, 1960, No. 3, pp. 20 - 23

TEXT: The authors report on a study of catalytic polymerization of cyclic products of the cohydrolysis of phenyl trichlorosilane (PTCS) with phenyl-methyl dichlorosilane (PMDCS), as well as of PTCS with dimethyl dichlorosilane (DMDCS). Besides, they discuss cyclic products with methyl siloxane groups in their rings. Ethyl sulfuric acid was used as catalyst. The ratios of components, and the properties of cohydrolysis products of organosiloxanes are given. Polymerization was conducted at 120°, in some cases at 90°C. From the change in viscosity of 10% solutions of the resulting polymers, the authors conclude that an increasing amount of phenyl-methyl siloxane groups in the cohydrolysis products of PTCS, PMDCS, and DMDCS leads to a slight retardation in ring polymerization. It is shown that the viscosity of solutions

Card 1/3

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APPROVED FOR RELEASE: Wednesday, June 21, 2000

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New Polymers of Catalytic Polymerization of S/191/60/000/003/005/013 Organosiloxanes B016/B054

of this polymer group (PTCS with PMDCS) at the time of gel formation is lower than that of polymers obtained from cyclic cohydrolysis products. Hence, the authors conclude that, in the cohydrolysis mentioned, rings are formed which partly polymerize under the experimental conditions only on an acid catalyst at increased temperature. On the basis of the infrared spectra (studies by N. P. Gashnikova), the authors conclude that during catalytic polymerization the siloxane chains of the polymer are transformed, and phenyl radicals are partly separated from the silicon atom at the same time. This leads not only to a ramification of the polymer molecules but also to a re-grouping of rings. Polymers with ramified structure have a rather low molecular weight. The thermomechanical properties of polymers as observed by G. Ye. Golubkov are given. A comparison of the data obtained clearly showed that an interrelationship exists between the vitrification temperature and the content of bifunctional components in polymers. Polymers obtained by cohydrolysis of PTCS with PMDCS at all quantitative ratios form, from solutions, brittle films which dry at 20°C. Polymers containing dimethyl siloxane groups form films drying at 200-300°C. The losses in weight during aging at 350 and 400°C for up to 10 days are given.

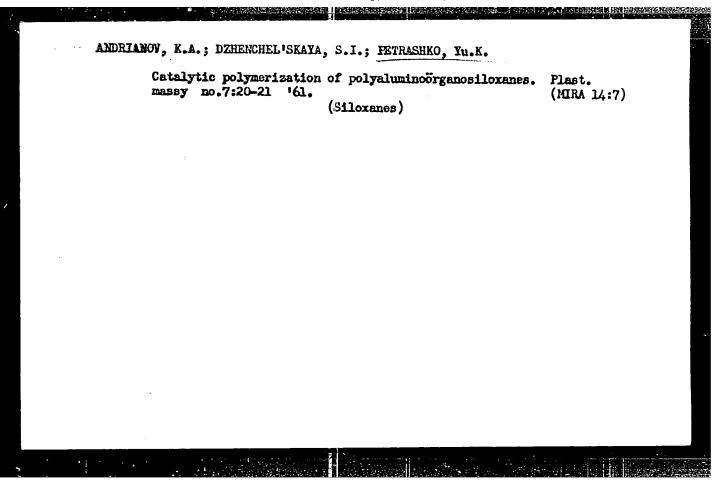
Card 2/3

87654

New Polymers of Catalytic Polymerization of S/191/60/000/003/005/013 Organosiloxanes B016/B054

Losses slightly increase with an increasing content of phenyl-methyl siloxane groups. Absolute losses, however, are small. The authors mention a paper by K. A. Andrianov and N. N. Sokolov (Ref.7). There are 4 figures, 6 tables, and 7 references: 3 Soviet and 4 US.

Card 3/3



Property of the state of the st

PUTRASHKO, Yr. K.

S. N. Dzhenchel'shaka, K. A. Andrianov and Yr. K. Petrashko, "The Froduction of Soluble Polymers with Increased Viscosity."

Report presented at the Second All-Union Conference on the Chemistry and Fractical Application of Silicon-Organic Compounds held in Leningrad from 25-27 September 1959.

Zhurnal prikladnoy khimii, 1959, Nr., pp 238-240 (USSR)

s/056/62/042/002/055/055 B108/B138

AUTHORS:

Ignatenko, A. Ye., Petrashku, M. G., Chultem, D

TITLE:

Electron activation of mesic atoms

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,

no. 2, 1962, 646-647

TEXT: It is known that the formation and occupation of "holes" on the inner electron shells of atoms leads to multiple ionization, stripping of chemical bonds, and ejection of an atom in the form of a free ion. The study of the atomic charge distribution in radioactive transformations has shown that the atoms lose on the average about 7 electrons when one "hole" is filled up. De Borde (Proc. Phys. Soc., A67, 57, 1954) has shown that cascade transitions of muons in mesic atoms in general lead to an ionization of the inner atomic shells. For instance, the bromine mesic atom may emit about 5 electrons when muons from the shell with principal quantum number n = 14 go over to the ground level. Consequently, the mean charge of ions in the case of mesic atoms can be considerable. The so called electron activation of mesic atoms may lead, for instance, to the transi-

Card 1/3

Electron activation of mesic ...

3/056/62/042/002/055/055 B108/B138

tion probability R of muons between levels of the hyperfine structure which is determined by the state of the electron shell of the mesic ion at the instant of its decay, depending on the kind of compound the atom in question occurs. If the mesic ion is in a metal, the electron shell will return to its original state after a time to which is small compared with the muon lifetime to Owing to the conversion mechanism of the electrons of the atom, R will always be considerably greater than 1/r In dielectrica on the other hand (e.g. ionic crystals) mesons will behave like impurity centers, such that for them $t_0\gg\tau$. Considering that the ionization potential of the inner shells increases with a decreasing number of electrons in the atom, one can conclude that R of dielectrics can be much smaller than $1/\tau$. Such considerations may clarify the experimentally established fact that the R's in the mesic atoms of the two phosphorus configurations differ considerably from each other. Taking into account that for mesic atoms of phosphorus the hyperfine structure interaction energy AW = 185 ev and that the energy of the L absorption edge of sili on (mesophosphorus) $V_{2S} = 156 \, \text{eV}$, one may conclude that for the black modification (conducting) experimental and calculated values of R will agree with each other. The calculations show that in the mesic atoms of phosphorus $V_{2S} > \Delta W$ already for emissions of Card 2/3

Electron activation of mesic ...

S/056/62/042/002/055/055 B108/B138

three or four electrons. In red phosphorus (dielectric) where $t_0\gg\tau$, R is already smaller than 1/t when one "hole" is formed. It was shown experimentally by L. B. Yegorov et al. (ZhETF, 40, 391, 1961) that the shell has no effect on the polarization of muons in diamagnetic substances. Therefore, it has also no effect in black phosphorus. Experiments with red phosphorus showed a maximum asymmetry of the electrons from μ - e decay at the frequency of the mesic nucleus spin precession, which is half as high as the precession frequency of the spin of the free muon. This indicates that in red phosphorus also the electron shell has no effect on the polarization of the muons. [Abstracter's note: Complete translation. There are 7 references: 3 Soviet and 4 non-Soviet. The four references to English-language publications read as follows: Beta- and Gamma-Ray Spectroscopy, Ed. by K. Siegbahn, North-Holland Publishing Company, Amsterdam, 1955, pp. 591-594; R. Winston, V. L. Telegdi. Phys. Rev. Lett., 7, 104, 1961; H. L. Donley. Phys. Rev., 50, 1012, 1936; De Borde. Proc. Phys. Soc., A67, 57, 1954.

ASSOCIATION:

Ob"yedinennyy institut yadernykh issledovaniy (Joint

Institute of Nuclear Research)

SUBMITTED: Card 3/3

November 14, 1961

Patrashku M.G.

AUTHORS: Bogachev, N. P., Mikhul, A. K., Petrashku, M. G.,

Sidorov, V. M.

TITLE: On the Angular Distribution of the Positive Myons Generated

by a $(\pi - \mu)$ -Decay (Ob uglovom raspredelenii μ +-mezonov ot

(N-m)-raspada)

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958,

Vol 34, Nr 2, pp 531 - 532 (USSR)

ABSTRACT: First the authors mention several earlier works dealing with

the same subject. The present work gives the results of the examination of 10.000 (π - μ)-decay processes of positive myons which came to a standstill in an HMK ϕ N emulsion of the P type. The emulsions were irradiated in a positive beam of the synchrocyclotron of the Laboratory for Nuclear Problems (Laboratoriya yadernykh problem) and during their exposure they were encased within a steel screen which protected them against the action of the exterior magnetic field.

The $(\pi-\mu)$ -decay processes were observed by means of an exa-

Card 1/3 mination with the M6N-3 microscope with about 100-fold en-

56-2-48/51

On the Angular Distribution of the Positive Lyons Generated by a $(\pi - \mu)$ -Decay

largement. The angular distribution resulting immediately on inspection is shown in a diagram. The asymmetry coefficient of this angular distribution is $b = -0.048 \pm 0.020$. Then the authors shortly report on the estimate of systematical errors. The probability of the observation of a $(\pi - \mu)$ -decay process decreases within the range of small values of the angle Θ^* between the final direction of the positive pion and the initial direction of the positive myon. The distribution determined by direct observation was corrected taking into account the registration probability and the experimentally determined distribution of the angles between the initial direction and the final direction of the positive pions. The corrected distribution of positive myons through the projections of the angles is shown in a diagram. The coefficient of asymmetry of this angular distribution is b = +0,009 + 0,018. Therefore the angular distribution of that part of positive myons which are generated by the N-M-decay of the positive pions which had come to a standstill is isotropic. The cause for the asymmetry observed in some works can at least partly be connected with a systematical error investigated in this work. There are 2 figures,

Card 2/3

CIA-RDP86-00513R001240 APPROVED FOR RELEASE: Wednesday, June 21, 2000

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

On the Angular Distribution of the Positive Myons Generated by a $(\pi-\mu)$ -De-

and 5 references, none of which is Slavic.

ASSOCIATION: United Institute for Nuclear Research

(Ob"yedinenny institut yadernykh issledovaniy)

SUBMITTED: December 4, 1957

AVAILABLE: Library of Congress

1. Myons-Scattering 2. Synchrocyclatron-Applications 3. Emulsion

Card 3/3

21(8)

AUTHORS: Mikhul, A. K., Petrashku, M. G.

SOV/20-124-1-18/69

TITLE:

The Fission of U^{238} by μ -Mesons (Deleniye U^{238} μ -mezonami)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 124, Nr 1, pp 66-68

(USon,

ABSTRACT:

The possibility of such a fission was predicted by U. A. Wheeler (Ref 1). In principle, the following 2 processes may compete with each other: a) Capture of the negative muon on one of the optical trajectories and the following transitions to the states 2s - 2p - 1s, in which an energy of about 7 Mev (i.e. more than the fission threshold value) is liberated. b) Nuclear capture, in which, by the reaction $A + p \rightarrow n + \gamma$ an excitation energy of the nucleus of about 15 Mev is obtained. Short reference is made to several previous papers dealing with this subject. In the present paper 26,975 processes of stopping negative muons in plates prepared with uranyl were investigated. Method of investigation: 200 NIKFI-R micron-plates were at first saturated with water for 25 minutes, after which they were kept for 40 minutes in a saturated acetic-acid uranyl solution. They were then dried for one hour and irradiated with negative muons for 3 hours; this was done in a

Card 1/3

The Fission of u^{238} by μ -Mesons

sov/20-124-1-18/69

n + ca -meson beam on the synchrocyclotron of the Ob"yedinemyy institut yadernykh issledovaniy (United Institute for Nuclear Research). The negative pions (150 Mev) were filtered by means of a copper block. A total of 59 cases of fission was found. In 4 cases the track of the meson ended in a star with 4 rays. The upper limit of the admixture of negative pions was estimated at 0.002 + 0.001. In the case under investigation 0.5 fissions out of a total of 59 were caused by negative pions. The probability P, with which a negative muon which was stopped in the plates caused fission, is equal to (2.2 ± 0.3).10-3. In all cases the ranges of the fission fragments were measured with an accuracy up to + 1 \u03c4 . A histogram shows the ratios of the ranges of the two fragments, and another shows the differences of the distances between the fragments. Analysis of results: the experimentally determined probability makes it possible to calculate the fission probability P from the ratio $P_f = P/0.4 P_c$ if certain conditions concerning the probability $P_{\rm c}$ of the capture of a negative muon by an atom are made. Pc was calculated according to the Fermi-Teller law (Ref 12) and on the basis of experimental results obtained by

Card 2/3

The Fission of U²³⁸ by A -Mesons

sov/20-124-1-18/69

J. C. Sens et al. (Ref 13). In these two cases the values 0.08 ± 0.01 and 1.13 ± 0.14 are obtained for P_f. Discussion:

A rigorous analysis of the fission of uranium by negative muons is impossible because experimental data for atomic capture in the case of large Z are not available. On the basis of the afore-mentioned histograms it might be concluded that the initially mentioned process a) occurs in 20% of cases. In process b) the value 0.06 is found as a rough estimate for the fission probability of Pa²³⁸. The authors thank Kh. Khulebey; V. P. Dzhelepov, A. Ye. Ignatenko, and V. M. Sidorov for their constant interest in the present paper and for useful discussions; they further thank M. Antonova and V. Vasilenko for their help in looking through the plates. There are 1 figure and 17 references, 2 of which are Soviet.

ASSOCIATION:

Ob"yedinennyy institut yadernykh issledovaniy(United Institute for Nuclear Research)

PRESENTED:

August 29, 1958, by V. I. Veksler, Academician

SUBMITTED: Card 3/3

August 26, 1958

Angular correlation of successively emitted gamma rays Kev. transition in the Sm nucleus. Zhur. eksp. i the sm 1141-1143 Ap 163.	ays due to the 440-337 i teor. fiz. 44 no.4: (MIRA 16:4)	
1. Institut atomnoy fiziki, Bukharest. (Samarium) (Gamma rays—Spectra)	(Quantum theory)	

YEGOROV, L.B.; ZHURAVLEV, G.V.; IGNATENKO, A.Ye.; LI SYMAN-MIN; PETRASHKU, M.G.; CHULTEM, D.

Investigating the paramagnetism of μ -mesonic atoms. Zhureksp. i teor. fiz. 40 no.2:391-399 F '61. (MIRA 14:7)

1. Ob"yedinennyy institut yadernykh issledovaniy. (Mesons)

RELOVITSKIY, G.Ye.; KASHCHUKEYEV, N.T.; MUKHUL, A.; PETRASHKU, M.G.; ROMANOVA,

T.A.; TIKHOMIROV, F.A.

Mechanism of uranium fission induced by slow /i-mesons. Zhur.eksp.i
teor.fiz. 98 no.2:404-408 F '60. (MIRA 14:5)

1. Obnyedinenayy institut yadernykh issledovaniy i Fizicheskiy
institut im. P.N.Lebedeva Akademii nauk SSSR.
(Uranium-Isotopes) (Mesons) (Nuclear fission)

S/056/63/044/004/003/044 B102/B186

AUTHORS: Roshokaru, V., Petrashku, R.

TITLE: Angular correlation of cascade gamma quanta of the 440 - 537 kev transition of the Sm150 nucleus

PERIODICAL: Zhurnal eksperimental noy i teoretioheakoy fiziki, v. 44, no. 4, 1963, 1141 - 1143

TEXT; Tablets pressed from same rium oxide (10 mm in diam, 1 mm height) were exposed to a collimated the rmal neutron beam from a BBP-C-2 (VVR-S-2) reactor. The angular correlation of the cascade gamma quanta emitted in $E_{II}-E_{I}-E_{I}$ transitions ($E_{II}=777$ kev, $E_{I}=337$ kev) by $62^{\rm Sm}$ nuclei was measured for the angles 90, 135 and 180° using a 400-channel analyzer. The transition characteristics were: 2(0.72E2 + 0.28M1) 2(2)0; 2(0.99E2 + 0.01M1)2(2)0; 3(0.98E2 + 0.02M1)2(2)0. From the amounts of M1 admixture and the counting rate ratios $W(9)/(W(\pi/2)-1)$ (which were 0.082 theoretical values (ANL-5324, 1954), the spin of the 777-kev level was figures and 1 table.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

Angular corre	olation of cascade	S/056/63/044/004/003/044 B102/B186
ASSOCIATION	Institut atomnoy Physics, Buchares	fiziki Bukharest (Institute of Atomic
	October 25, 1962	
Card 2/2		

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001240

TECOROY, L.B. IGMITEHED, A.E., KUTTON, A.V., TETRACIKU, M.

"Search for Anomalies in MulMeson Decay in Mesonic Atoms of the F2 Group Transition Netals"

report presented at the Intl. Conference on High Energy Physica, Geneva, 4-11 July 1962

Joint Institute for Nuclear Research Laboratorycof Nuclear Problems

YEGOROV, L.B.; IGNATERKO,	A.Ye.; KUPISOV, A.V.;	PETRISHED, M.G.		
Search for anomalic Zhur, eksp. 1 teor.	os of w-zeson decay in . fiz. 43 no.3:873-876	162. (MI	RA 15:10)	
l. Ob*yedinemyy (Mesons—D	institut yadernykh issl ecay)	edovaniy. Paramagnetism)	•	
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YEGGROV, L.B.; IGNATENKO, A.Ye.; KUPTSOV, A.V.; PETRASHKU, M.G.

Anomaly in A(-meson decay in mesic atoms of transition metals of the iron group. Zhur. eksp. i teor. fiz.
43 no.4:1149-1153 0 '62. (MIRA 15:11)

1. Ob*yedinennyy institut yadernykh issledovaniy. (Transition metals)

(Ifon group)

YEGOROV, L.B.; IGNATENKO, A.Ye.; KUPTSOV, A.V.; PETRASHKU, M.G.; SARANTSEVA, V.R., tekhn. red.

[Search for anomalies in M/-meson decay in paramagnetic metals]

Poiski anamalii pri raspade M/-mezonov v paramagnitnykh metallakh.

Dubna, Ob*edinennyi in-t iadernykh issl., 1962. 5 p. (MIRA 15:6)

(Mesons-Decay) (Magnetic materials)

YEGOROV, L.B.; ICHATENKO, A.Ye.; KUPTSOV, A.V.; PETRASHKU, M.G.;
SARANTSEVA, V.R., tekhn. red.

[Anomaly in Momeson decay in mesic atoms of transition metals of the iron group] K voprosu ob anomalii pri raspade Momesonov v mezoatomakh perekhodnykh metallov gruppy zhemezonov v mezoatomakh perekhodnykh issledovanii, 1962. 9 p. leza. Dubna, Obmedinennyi in-t iadernykh issledovanii, 1962. 9 p. (MIRA 15:6)

(Mesons - Decay) (Transition metals) (Iron group)

IGNATENKO, A.Ye.; PETRASHKU, M.G.; CHULTEM, D.

Electron activation of mesic atoms. Zhur. eksp. 1 teor. fiz.
(MIRA 15:2)
42 no.2:646-647 F '62.

1. Ob*yedinennyy institut yadernykh issledovaniy.
(Electrons)(Ionization)(Mesons)

ыл22 s/056/62/043/004/005/061 в102/в180

24 6100

AUTHORS:

Yegorov, L. B., Ignatenko, A. Ye., kuptsov, A. V., Petrashku,

TITLE:

The anomaly problem in the meson decay in mesic atoms of transition metals of the iron group

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 4(10), 1962, 1149 - 1153

TEAT: Using scintillation counters with a 128-channel pulse-height analyzer, the ratio between the decay probability of μ mesons in mesic atoms and of free μ mesons was measured for mesic Fe, Zn, Ni and Cu to verify published experimental results and predictions. The Fe and Zn targets were in the form of sandwiches consisting of ten 15.15 cm² plates, separated by Al sheets 0.7 mm thick. The Ni and Cu targets were 15.15 cm² plates, ed by Al sheets 0.7 mm thick. The Ni and Cu targets were 15.15 cm² plates, $5\mu/cm^2$ thick. From the time distributions of the μ decay electrons, $5\mu/cm^2$ thick. From the time distributions of the μ decay electrons, $5\mu/cm^2$ thick. From the time distributions of the μ decay electrons, $5\mu/cm^2$ thick. From the time distributions of the μ decay electrons. For Fe+Al β = 0.485±0.009 μ sec and for Zn+Al, β = 0.463+0.008 μ sec. Then

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                                                                          0 ل 1 لا / 102 ق
The anomaly problem ...
with S (Fe + Al) = n_1 S (Fe) + n_2 S (Al),
       S(Zn + Al) = n_1 S(Zn) + n_2 S(Al).
                                                               S(A1) = 0.707 \pm 0.002.
                              S(Zn) = 0.161 \pm 0.004
S (Fe) = 0.201 \pm 0.004
  \xi = \frac{\Lambda_{\rm p}({\rm Fe})}{\Lambda_{\rm p}({\rm Zn})} = \frac{n_1}{n_1^{'}} \frac{n_2^{'}}{n_2^{'}} \frac{\Lambda\left({\rm Fe}\right)}{\Lambda\left({\rm Zn}\right)} k_1 k_2,
                                            (6) was calculated. E is the me decay probabili-
 ty ratio, k<sub>1,2</sub> are correction factors.
   \xi = \Lambda_{\mathfrak{p}}\left(Fe\right)/\Lambda_{\mathfrak{p}}\left(Zn\right) = 0.94 \pm 0.05.
                                                 was obtained: Within the error limits the
  \xi = \Lambda_p (Ni) / \Lambda_p (Cu) = 0.98 \pm 0.05.
  \dot{\xi} - values are equal - which indicates the absence of anomalies such as
 were observed e. g. in Phys. Rev. Lett. 1, 102, 1958; Phys. Rev. 113, 661, 1959; Phys. Rev. 117, 1580, 1960) and that the instrument effect mentioned
 by Huff (ANN. Physics, 16, 288, 1961) and Chilton (Phys. Rev. Lett. 7, 31,
  1961) cannot be the cause of the anomalies observed by those writers.
  There are 4 figures.
  Card 2/3
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S/056/62/043/004/005/061
B102/B180

ASSOCIATION: Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Rosearch)

SUBMITTED: April 23, 1962

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R00124(L 51865-65 EWT(m)/EWG(m) RMH/GS/RM 8/0000/64/000/000/0062/0066 ACCESSION NR: AT5002661 AUTHOR: Shrubovich, V. A.; Chernyavskiy, G. V.; Petrashenko, A. A. / TITLE: Ton exchangers based on polymaleic anhydride SOURCE: AN Ukrssr. Institut khimil vysokomolekulyarnykh soyedineniy. Sintez i fiziko-khimiya polimerov; sbornik statey po rezul'tatam nauchno-issledovatel' skikh rabot (Synthesis and physical chemistry of polymers; collection of articles on the results of scientific research work). Kiev, Naukova dumka, 1964, 62-66 TOPIC TAGS: crosslinked polymer, ion exchange resin, polymaleic anhydride, ethylene glycol crosslinking, hekamethylene dismine crosslinking ABSTRACT: Grosslinked polymers were obtained by treating polymaleic anhydride with ethylene glycol (10-40 mol. %) or hexamethylene diamine (procedure given). The crosslinked polymers exhibited properties of carboxylic ion exchangers (static exchange capacity up to 12 meg/g dry cationite, dynamic capacity up to 6 in alkaline and 1 meg/g in neutral media). The resins showed high regeneration at room temperature, but were unstable in hot water and hydrolized readi-

Card 1/2

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

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AC	Cession NR	: AT5002661		rised with N.N'-h	examethylenedimalel ad polymer powders in water. Oris. a	c ,
1 y	Maleic ide (80 hr	anhydride was s, 70-80C, be e mechanicall	ensoyl peroxide ly unstable and), The crosslink swelled slightly	exametry ed polymer powders in water. Orig. a	1:t.
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\$1. \text{\$1.} \text{\$2.} \text{\$1.}	THE RESERVE OF THE PARTY OF THE			encl: 00	SUB CODE: CC ,O	0
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

PETRASHKO, A.I.; ANDRIANOV, K.A.

Catalytic polymerization of phenyldimethyl siloxane illigimers in the presence of polymetallophenyl siloxanes. Plant.masoy no.6:17-20 % (MIRA 18:4)

. 54445_65 ENT(m)/EPE(c)/EPR/ENP(1)/T ACCESSION NR: AP5012450 UR/0062/65/000/004/0660/06 546.287 Yu. K.; Vozhova, V. D.; Andrianov. AUTHORS: Fromberg, M. B.; Petrashko TITLE: Double decomposition of alkyl(aryl) trisodium oxysilanes and methylphenyl dichlorosilane SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 4, 1965, 660-665 TOPIC TAGS: silene, IR absorption spectrum, polymerization, polycondensation, godium compound ABSTRACT: The double decomposition of trisodium salts of alkyl(aryl) silantriols and methylphenyl dichlorosilane was studied. In order to use the reaction for obtaining trifunctional splitting of oligomers with functional groups at the ends of the branches, the synthesis was carried out with 1 mole of alkyl(aryl) trisodium oxysilane for 3 moles of methylphenyl dichlorosilane. Sodium salts (obtained by treating alkyl(aryl)polysiloxanes with an alcohol solution of caustic soda) were used. The double decomposition reaction was carried out below 400 with gradual introduction into a solution of methylphenyl dichlorosilane of a suspension of the trisodium salt in toluene. Analysis of the resulting products Card 1/3

L 54445-65

ACCESSION NR: AP5012450

shows them to contain but an insignificant amount of functional groups. The chlorine content was but 0.1% as against an expected 17.17%, on the assumption of the course the reaction would follow. Only traces of the hydroxyl group were detected after treatment with water. These data indicate that the double decomposition does not follow the expected pattern, but that it is apparently accompanied by hydrolytic processes that lead to the formation of cyclic compounds of complex structure. This view is supported by the presence of crystallization water in alkyl(aryl) silantriols. For the double decomposition reactions, sodium salts of methyl, ethyl, and phenyl silantriols were used. These yielded 1,7dimethyl-3,5,9,11,14,16-hexamethylhexaphenyl bicyclo (5,5,5) octasiloxane; 1,7diethy1-3,5,9,11,14,16-hexamethylhexaphenyl bicyclo (5,5,5) octasiloxane; and 1,7-dipheny1-3,5,9,11,16-hexamethylhexaphenyl bicyclo (5,5,5) octasiloxane. These compounds are low-viscosity liquids, soluble in benzene, toluene, and carbon tetrachloride, and insoluble in ethyl and methyl alcohols. The composition, structure, and properties of the compounds are tabulated. Infrared spectra of all compounds exhibit an absorption band in the 1080-1090 cm-1 region, correspending to vibration of the Si-O bond in eight-member rings. No characteristic bond for Si-OH was detected. Supplementary experiments on catalytic polymerization and thermal polycondensation demonstrated that the compounds are polymerized by means of 1% NaOH at 800 and that thermal polycondensation, which was

Card 2/3

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

L 34445-65 ACCESSION NR: AP5012450 effected at 220-2500 during 1 changes in properties or comp support the view that the com figures, 1 table, and 2 forms	pounds have cyclic struct	urs. Orig. art. has. 2	
ASSOCIATION: Elektrotekhnich neering Institute) SUBMITTED: 17Apr63	ENGLI 00	SUB CODE: OC, GC	
NO REF 80V: 003	OTHER: 002		
U() Cord 3/3			

ACCESSION NR: AP4031179

\$/0056/64/046/004/1481/1483

AUTHOR: Kozhokaru, V.; Petrashku, M.

TITLE: Spin of the 1360-keV level of the Sm-150 nucleus

SOURCE: Zh. eksper. 1 teor, flz., v. 46, no. 4, 1964, 1481-1483

TOPIC TAGS: samarium 150, 1360 keV level, 1360 keV level spin, γ -ray spectrum, thermal neutron capture, γ cascade transition, angular correlation, angular correlation

ABSTRACT: An experimental setup previously described by the authors (ZhETF v. 44, 1141, 1963) was used to determine the spin of the 1360-keV level by measuring the angular correlation of the 585-440 keV cascade y quanta accompanying the capture of thermal neutrons by Sm¹⁴⁹. The measurements were made at angles 90, 135, and 180° between detectors. The experimental data agree best with a spin value of 4. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: None

Cord 1/4!

PETRANAKU, S.

USSR-RUMANIA/Analytical Chemistry - Analysis of Organic

G-3

Substances

Abs Jour

: Referat Zhur - Khimiya, No 2, 1957, 4844

Author

Petrashku, S., Grou, E.

Inst

: Academy of Sciences Rumanian People's Republic

Title

: Colorimetric Method for the Determination of Dinitro-

phenols

Orig Pub

: Biol. zh. Akad. RNR, 1956, 1, No 1, 263-267

Abstract

: Determination of dinitrophenols (I) in insecticidal and herbicidal preparations is based on conversion of I to amino-quinoneimines and a colorimetric determination of the latter in ageous solution; the corresponding dinitroalkyl phenol is used as a standard. Determinations are made by direct comparison in a Duboscq colorimeter, photoelectric colotimeter of Lang, with a blue filter, FEK-M or Pulfrich colorimeter. For a determination of I a 1-5 g sample is dissolved in 20 ml alcohol and the

Card 1/2

- 56 -

Card 2/2

- 51 -

MOLOTKOV, L. A. and PETRAGHOV, G. I.

"On Certain Dynamic Properties of Thin Blastic Layers."

paper presented at the 4th All-Union Conf. on Acoustics, Moscow, 26 May -2Jun 5".

ACC NR: AP7010682

SOURCE CODE: UR/0089/66/021/003/0197/0201

AUTHOR: Chupka, Sh.; Petrashova, M.; Tsarakh, I.

ORG: Regional Sanitation Epidemiological Station, Bratislava

TITLE: Content of 90Sr and 137Cs in agricultural products during 1963 and 1964 in West Slovakia

SOURCE: Atomnaya energiya, v. 21, no. 3, 1966, 197-201

TOPIC TAGS: agriculture crop, isotope, radioactive fallout, plant circulation

SUB CODE: 02,18,06

ABSTRACT: Analysis of the ⁹⁰Sr and ¹³⁷Cs level in agricultural products in West Slovakia during 1963 and 1964 showed the highest content of these isotopes in grain cultures comparatively lower content in leguminous, and the lowest in tuberous plants. The ¹³⁷Cs: ⁹⁰Sr ratio depended on the sorptive ability of plants and the amount of radioactive fallout in the vicinity of nuclear power plants of the region. Orig. art. has: 7 tables.

Card 1/1

mc: 551,577,7:614,776

PETRASOVA, M.; CSUPKA, S.; CARACH, J.

The results of radioactivity measurements of dust and rain falls in western Slovakia in 1961-1963. Cask. hyg. 9 no.10:595-400 D * 64.

1. Oddelenie idiacnej hygiony rajskej hygienicko-spiremiciegickej stanicy, Bratislawa.

Country : Czechoslovakia B-5
Category : Physical Chemistry - Crystals

Abs. Jour.: Referat Zhur-Khimiya, No 6, 1959 18280

Author : Petrasova, M.; Madar, J.; Hanic, F.

Institut. : Crystal Structure of Potassium Metavanadate

Orig Pub. : Chem. zvesti, 1958, 12, No 7, 410-418

Abstract: Roentgenographic study (by the rotation method, Weissenberg's, and precession method) of crystal structure of KVO₃. Parameters of rhombic lattice: a 5.70, b 10.82, c 5.22 A; Z = 4; F.gr. Pmab. Coordinates of atoms were determined by plotting projections of Patterson and Fourier. Complete analogy has been ascertained with the structure of NH_hVO₃. A comparison with the structure of KVO₃.H₂O was made.

Card: 1/1

	61478-65 - EWT(m)/EWA(h) DH		
	CCESSION NR: AF5020186	UR/0089/65/018/005/0496/0499	
A Second	OTHOR: Chupka, Sh.; Petrashova, M.	Tsarakh, I.	
		a fallout over west Slovakian territory	
	OURCE: Atomnaya energiya, v. 18, no		
	OPIC TAGS: strontium, radioactive d'adioactive d'	allout, isotope, stratosphere, atmospheric	
in ii co	easured at four points of western SI n 90Sr content (up to 12%) was obser	content of 90 Sr in radioactive fallout was ovakia during 1962-1963. A considerable rise ved during November and December 1963. It was a fallout consists of stratospheric origin art. has: 3 tables, 1 graph.	
A!	아일로 교육하면 한 사람들은 사람들은 사람들이 가는 것이 되었다.	tantsiya, Bratislava (District Medical-	
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c	ard 1/1		

DYURCHEK, K. [Durček, K.]; MINARIK, F.; STANKOVICHOVA, A. [Stankovičova, A]; PETRASHOVA, M. [Petrašova, A.]; URICHEK, L. [Uriček, L.]

Doses of X irradiation to which patients and medical personnel are exposed during cardiac catheterization. Med.rad. 4 no.10:66-70 0 159. (MIRA 13:2)

the reservation of the reservati

1. Iz Instituta gigiyery truda i professional nykh zabolevaniy v Bratislave (dir. - doktor med.nauk I. Kldchik).

(HEART CATHETERIZATION)

(RADIOGRAPHY)

YEGOROV, L.B.; ZHURAVLEV, G.V.; IGNATENKO, A.Ye.; KUPTSOV, A.V.;

LIYESTIMENT THE SPIN dependence of weak interaction in the process the p -> n + Y. Zhur.eksp., 1 teor.fiz. 41 no.3:684-(MIRA 14:10)

1. Ob*yedinemnyy institut yadernykh issledovaniy.

(Nuclear reactions) (Protons) (Mesons)

70750

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27 2200

S/056/62/043/003/022/063 B102/B104

AUTHORS:

Yegorov, L. B., Ignatenko, A. Ye., Kuptsov, A. V.,

Petrashku, M. G.

TITLE:

Search for h decay anomalies in paramagnetic metals

PERIODICAL:

Zhurnal eksperimental nov i teoreticheskov fiziki, v. 43,

no. 3(9), 1962, 873-876

TEXT: The observation of nontrivial effects in μ decays caused in mesic atoms by unpaired electrons would be of creat use for investigating the magnetic properties of atoms and of hydrides of transition metals. The authors measured the relative μ decay probabilities at different numbers of unpaired electrons in mesic atoms of the systems Pd-H and Ti-H. Under identical experimental conditions the following yield ratios were obtained:

 $Y (TiH_{1,0}) / Y (Ti) = 1,00 \pm 0,02,$ $Y (PdH_{1,0}) / Y (PdH_{0,0}) = 1,02 \pm 0,02,$ $Y (PdH_{0,0}) / Y (Pd) = 0,99 \pm 0,02,$ $Y (PdH_{0,0}) / Y (PdH_{0,0}) = 1,01 \pm 0,02.$

Card 1/3 2

THE RESERVE OF THE PROPERTY OF

Search for µ decay anomalies ...

S/056/62/043/003/022/063 B102/B104

The equality of the results strengthens the supposition that no effects caused by unpaired electrons are responsible for the increase of the production decay probability in mesic atoms of transition metals of the iron group (Phys. Rev. 113, 661, 1959; 119, 365, 1960). It indicates also a shift of the X-ray frequency emitted in the 2p-1s transitions of the mesic atoms of these metals (C. Scott et al. Chicago, Preprint EFJNS-61-59). There

ASSOCIATION:

Ob"yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED:

April 23, 1962

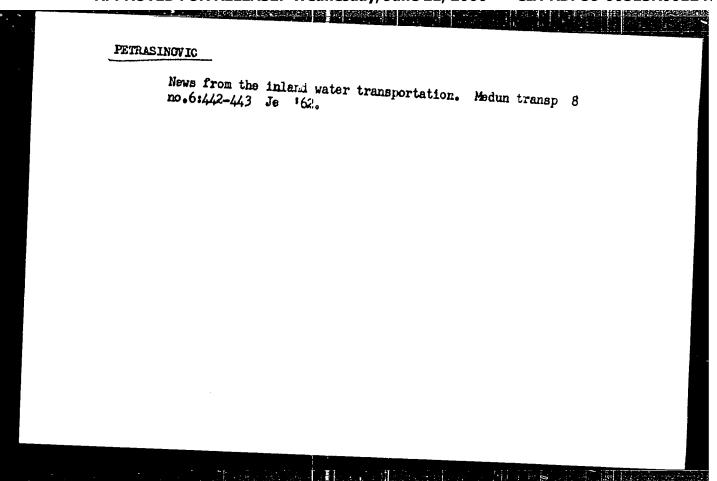
Figure Block diagram of apparatus.

Legend: 1-5 Scintillation counters, 6 - target, 7 - magnetizing coil,
8 - copper filter, 9 - aluminum filter, 10 - anticoincidence circuit,
11 - coincidence circuit, 12, 13 - amplifiers, 14, 15 - shaper, 16 - delay
line (0.10 | usec), 17-delay (> 1.1 | usec) 18 - trigger, 19, 20 - transmission,
21, 22 discriminators, 23, 24, 25 - counting devices.

Card 2/8 7

PETRASICS, F.

Design of boilers of medium capacity suitable for firing coal of high calorific value and dust content. Periodica polytechn eng 7 no.3:259-260 '63.



PETRASINOVIC, Bozin, sanitetski potpukovnik, dr.

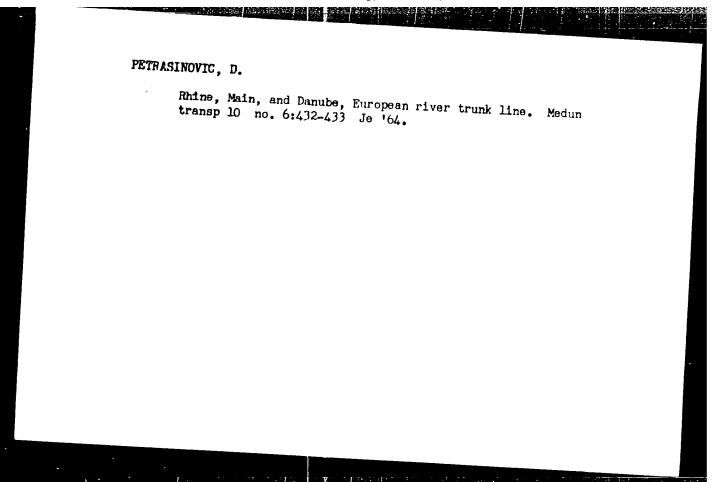
Correction of vision with eyeglasses and fitness for military service. Vojnosanit. pregl. 19 no.3:225-227 Mr '62.

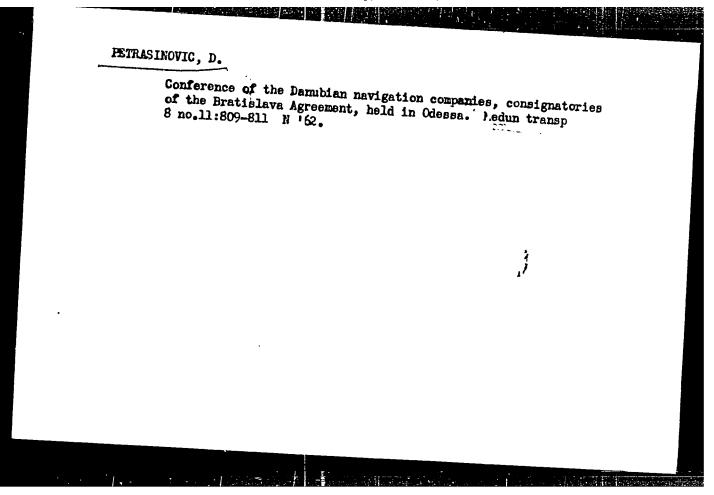
1. Vojna bolnica u Ljublijani, Ocno odeljenje.
(MILITARY MEDICINE) (EYEMLASSES)

2

General practitioner's errors in the diagratis and treatment of diseases of the anterior chamber of the eye and their correction. Vojnosanit. pregl. 21 no.4s260-266 ap 164

1. Vojna bolnica u ljubljani, Ocno odeljenje.





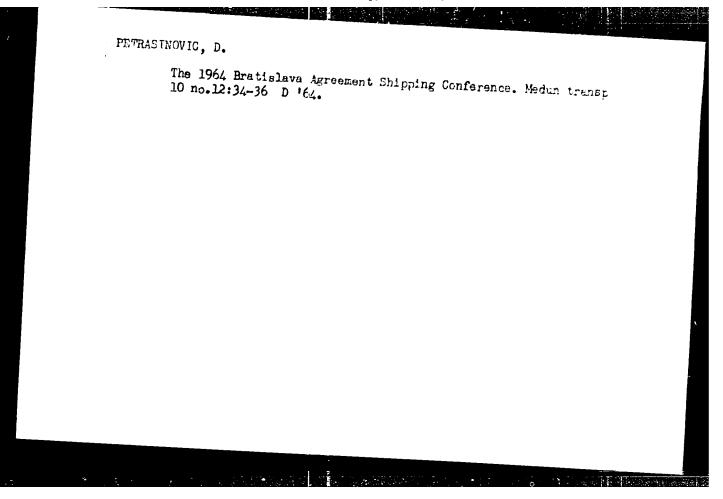
The compland railroad-inland water transit set up on an international basis. Medum transp 8 no.10:014-717 0 62.

NEDELJKOVIC, Srecko, dr; JOSIPOVIC, Vladan, doc., dr; DURIC, Vukosava, dr; SPUZIC, Ivan, dr; PETRASKÓVIC, Dragoslav, dr; VUJIC, Ljubica, dr

Myocardial infarct in subjects under 40 years of age. Med. glas. 15 no.3:139-144 Mr 161.

1. Interna klinika B. Medicinskog fakulteta u Beogradu (Upravnik: prof. dr R. Berovic) I Dom narodnog zdravlja u Beogradu (Upravnik: dr S. Jancic) Opsta bolnica u Bihacu (Upravnik: dr M. Tatlic)

(MYOCARDIAL INFARCT case reports)



IVARIO, E., D. DECVA, S., VARA, J. Technicka spoluprace: Allocation, see

THE PERSON NAMED OF THE PROPERTY OF PARTY OF PARTY OF THE PERSON NAMED IN THE PERSON N

Distribution of psychoses registered for psychiatric care in a segment of the inhabitants of a metropolitan area. II. Annual incidence. Cask. psychiat. 61 no.1:47-57 F:65.

1. Vyzkumny ustav psychiatricky v fraze.

IGNATENKO, A.Ye.; KUPTSOV, A.B.; LI SUANG-MING; PETRASKU, M.G.; YEGOROV, L.B.; ZHURAVLEV, G.V.

Spin dependence of weak interaction in the process $u + p \rightarrow h + v$ Dubna, Izdatel'skii o'del Ob'edinennogo in-ta iadernykh issledo-vanii, 1961. 13 p. (MIRA 14:10)

(No subject heading)

SELECKY, F.V. MUDr., CSc.; BABULOVA, A.; BURAN, L.; LANGER, J. Technicka spolupraca: VRABLOVA, O.; PETRASOVA, E.; NEMCEK, V.

The cumulative effect of various cardiac glycosides extracted from domestic raw materials. Bratisl. lek. listy 45 no.10:

1. Farmacologicky ustav Caškoslovenskej akademie vied (riaditelka: prof. MUDr. F. Raskova, DrSc.); pracovisko Bratislava (veduci: MUDr. F.V. Selecky CSc.). Katedra patologickej anatomie Lekarskej fakultī Univerzity Komenskeho v Bratislave (veduci: prof. MUDr. M. Brozman, DrSc.).

CSUPKA, S.; PETRASOVA, M.; CARACH, J.

Content of Sr90 and Cs137 in radioactive deposit in 1964. Cesk. hyg. 10 no.10:615-617 D '65.

1. Oddelenie radiacnej hygieny Krajskej hygienicko-epidemiologickej stanice, Bratislava.

L 24154-66 ACC NR. AP6	6011,979 SOURCE CODE: CZ/0038/66/000/001/0016/0019	
AUTHOR: Car Tearakh, Y.	Suples Stafan-Churica Sh a Datanasan Mark	<u>.</u>
ORG: Region	onal Hygiene-Epidemiological Station, Bratislava (Krajska hygienicko-	
TITLE: Cont	thamination of the blosphere by sup 137 Cs from weapon test fallout	ý.
SOURCE: Jad	derna energie, no. 1, 1965, 16-19	
TOPIC TAGS:	cesium radioactive fallout, atmospheric contamination, radioactive	
had, in 1963 activity of In 1963 the value of the presented by comments and	The concentration of 137Cs in the precipitation on the territory of vakia was measured in 1962 and 1963. The total \$\beta\$-active precipitation 3.a tendency to decrease. The specific gravity of the semi-monthly 137Cs in the total \$\beta\$activity amounted in 1962 to 0.9% and in 1963 to 3.2%. activity of 137Cs was 1.3 times higher than the 90Sr. The cumulative e radiocesium in 1962 to 1963 amounted to 37.8 nC/m². This paper was y F. Behounek. The authors thank Academician F. Behounek for critical useful advice. Orig. art. has: 2 figures and 2 tables.	
	18 / SUBM DATE: none / ORIG REF: 005 / OTH REF: 010 / SOV REF: 001	
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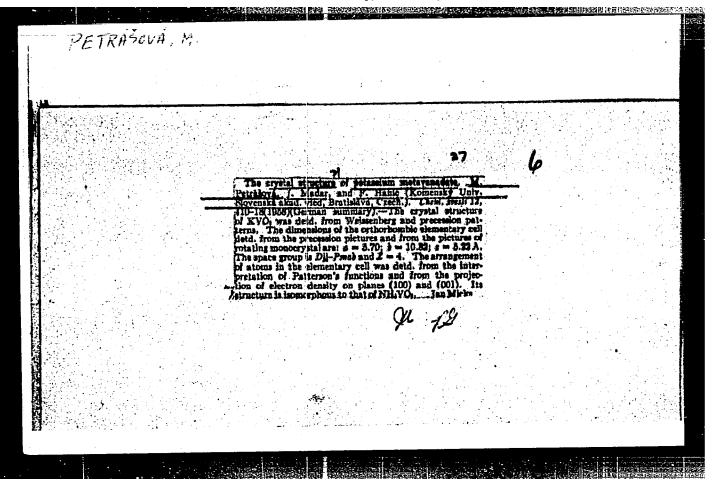
CZECHOSTOWATTA

PETRASOVA, M; CSUPKA, S; CARACH, J.

Department of Radiation Hygiene KIES (Oddelenie radiacnej hygieny KIES), Bratislava (for all)

Prague, Ceskoslovenska Hygiena, No 10, 1964, pp 595-600

"The Results of Radioactivity Measurements of Dust and Rain Falls in Western Slovakia in 1961-1963."



CZECHOSLOV/XI//Physics of Solid Bodies.- Structural Crystallogrephy E-4

ibs Jour : Ref Zhur - Fizika, No 4, 1959, No 5042

: Petrasova M., Mador J., Hanic F. Luthor

: Komensky University, Bratislava, Czechoslovakia Inst

: Crystalline Structure of KVO3. Title

Orig Pub : Chen. zvesti, 1958, 12, No 7, 410-418

Abstract: The crystalline structure of KVO, was determined by the methods of Vaysenberg and the precession chamber. A total analogy with the structure of NH4VO3 was found. -- Author's resume

: 1/1 Card

A SECTION OF THE RESERVED EXPENSION DESCRIPTION OF THE PROPERTY OF THE PROPERT

MINARIK, F.; UHRIK, F.; HRABOVCOVA, A.; PETRASOVA, M.; DOUPOVEC, V.; MORAVKOVA, M.; URICEK, L.

Analysis of gamma-emitters in the fallout on the site of the nuclear electric power plant A-1. Cesk. hyg. 10 no.7:400-403 Ag '65.

1. Ustav hygieny prace a chorob z povolania, Bratislava.

CZECHOSLOVAK IA

CSUFKA, S; PETRASOVA, M; CARACH, J.

bection on Madiation Mygiene (Oddelenie radiacnej hygieny), KHES, Bratislava - (for all).

Frague, Ceskoslovenska hygiena, No 10, December 1965, pp 615-617

"Content of Sr 90 and Ca 137 in radioactive deposit 1964."

YEJPR, D.: PETRASOVICH, I.

The respiration of rice seedlings. Pt. 2. Acta bot Hung 9 no. 3/4 299-306 '63.

1. Institute of Plant Physiology, Lorand Ectvos University, Budapest.

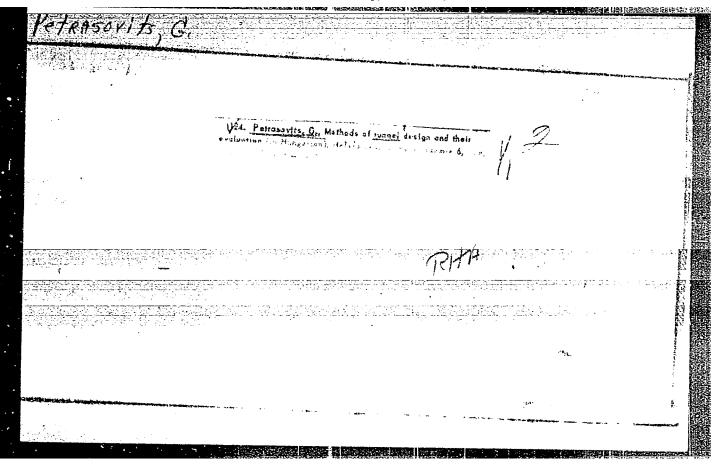
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FEJER, D.; PETRASOVICH, I.

The respiration of young rice seedlings. Pt. 1. Acta bot Hung a no.1/2:1-10 '63.

. The second second management received to the contract of the

1. Institute of Plant Physiology, Budapest.



Methods of designing circular tunnels and evaluating them, p. 321,
MELYEPITESTUDDMANYI SZEMLE (Kozlekedsi Kiado) Budapest, Vol. 6,
No. 7/8, July/Aug. 1956

SOURCE: East European Accessions List (EEAL) Library of Congress,
Vol. 5, No. 11, November 1956

12 m ACC NRI AT6033338 SOURCE CODE: HU/2504/65/051/03-/0431/0450 AUTHOR: Petrasovits, G.--Petrashovich, G. (Candidate of technical sciences) ORG: Technical University for Construction and Transportation, Budapest TITLE: Soil stabilization experiments with plastics Academia scientiarum hungaricae. Acta technica, v. 51, no. 3-4, 1965, 431-450 TOPIC TAGS: soil mechanics, amino resin, soil property ABSTRACT: Laboratory experiments were conducted to investigate the stabilization of silty and sandy soils with synthetic resins. Various types of urea-formaldehyde and melamine-formaldehyde resinsbin the 5-15% concentration range were employed. The effects of thermal factors such as freezing and thawing were taken into consideration. It was found that the synthetic resins were generally more suitable soil stabilizers than sodium silicate and are comparable in cost. The soils stabilized with the resins were found to be corrosion-resistant/and they maintained a high level of strength for an extended period of time. The experimental techniques and the results obtained were presented in detail. Orig. art. has: 12 figures. [Orig. art. in Eng.] [JPRS: 33,909] SUB CODE: 08, 11 / SUBM DATE: 02Feb65 / ORIG REF: 002 / SOV REF: 006 Card 1/10920

C+7 + 1	: http://www. : Plant Physiology. Water Conditions.	· · · · · · · · · · · · · · · · · · ·
,	: MchBiel Mo.3 1959, Mo. 10619	
11.0 11.0	Potrasovite.	;
	: Coefficient of Transpiration in Pice	ļ
	: Novemy termelés, 19,7, 6, No. 3, 203-206	
	: No apstract,	
<u>!</u>		
1:1/1	16	

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

ECURIOCATES, Imme, BellA, Maria

Siffect of certain factors influencing the garminal or of core on the quantity of accessing acids. Ignover telephone (1994), 593-598 D 163.

1. Department of Agronomy and Flant Crewing, University of Agricultural Sciences, Godolf.

PETRASOVITS, Imre, a memogazdasagi tudomanyok kandidatusa

Water tolerance of plants. Hidrologiai Komlony 39 no.4:
285-288 Ag*59.

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PETRASOVITS, Imre, a mezogazdasagi tadicamyok kandidatusa, egyetami docens.

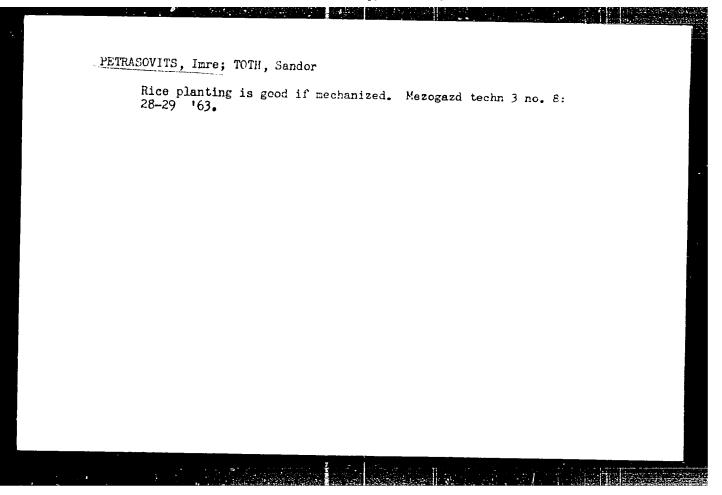
Academic report on the General Plan for National Water Examony.

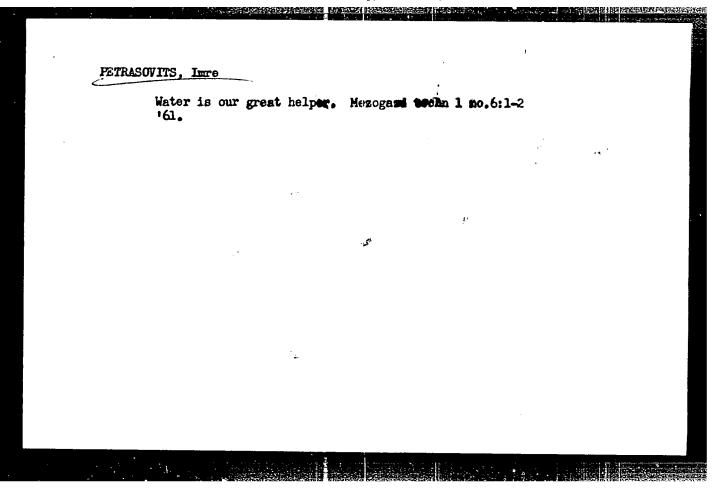
Magy tud 71 no.2:113-115 F.64.

1. Agrartudomanyi Egyetem, Godollo.

PETRASOVITS, Inre, dr., a mezogazdasagi tudomanyok kandidatusa

Influence of the depth of ground water on the crop capacity.
Hidrologiai kozlony 40 no.6:504-506 D '60.





MIKHUL, A.K.; PETRASHKU, M.G.

Pission of U²³⁸ by A-mesons. Dokl. AN SSSR 124 no.1:66-68 Ja '59.
(MIRA 12:1)

1.0b*yedinennyy institut yadernykh issledovaniy. Predstavleno akademikom V.I. Vekslerom.
(Mesons) (Uranium-Isotopes) (Nuclear fission)

PETRASOVIIS, Goza

An appeal for a contest. Koh lap:Suppl.:Cntode 14 no.8:184 Ag '63.

l. Magyar Tudomanyos Akademia Munzaki Tudomanyok Osztalya szaktitkara.

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PETRASYUK, A.A.

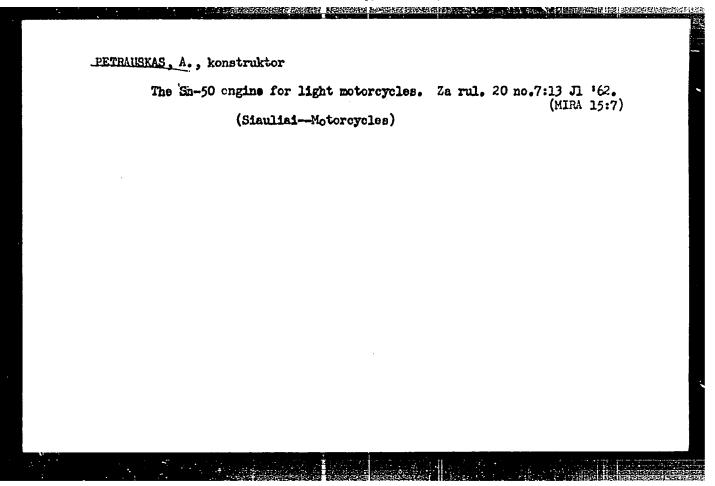
Phenomenon of pulse transposition of the retinal arteries in papilledema. Zdrav. Kazakh. 22 no.5:28-31 '62. (MIRA 15:6)

1. Iz kafedry glaznykh bolezney (zav. - prof. V.P. Roshchin)
Kazakhskogo meditsinskogo instituta.

(OPTIC MERVE—DISEASES)

(RETINA—BLOOD SUPPLY)

(PULSE)



"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00124(

PETRAUSKAS, A. S.

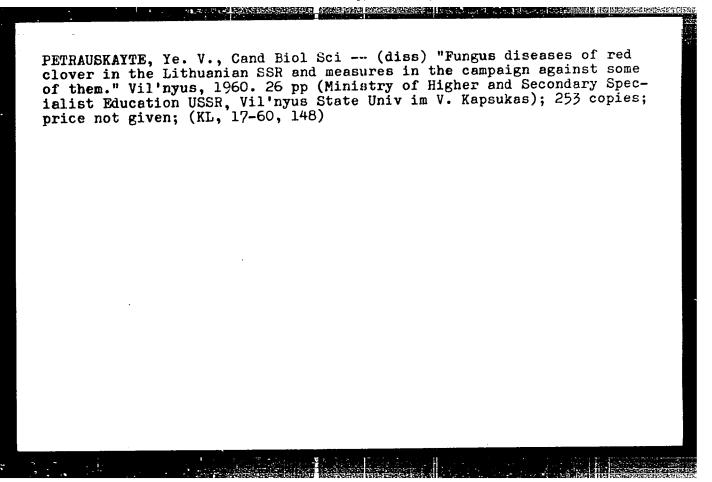
Cand Med Sci - (diss) "Diuretic and toxic action of mercusal and novurite according to data of clinical and experimental studies." Vil'nyus, 1961. 19 pp; (Ministry of Higher and Secondary Specialist Education USSR, Vil'nyus State Univ imeni V. Kapsukas); 250 copies; price not given; (KL, 6-61 sup, 239)

BODNEVAS, A., red.; VISHOMIRSKIS, R.[Visomirskis, R.], red.; GAL'DIKENE, O.[Galdikiene, O.], red.; MATULIS, Yu. [Matulis, J.], red.; PETRAUSKAS, V., red.; KARVYALIS, V. [Karvelis, V.], tekhn. red.

[Theory and practice of bright electroplating] Teoriia i praktika blestiashchikh gal'vanopokrytii; osnovnye materialy. Vilnius, Gós.izd-vo polit. i nauchn. lit-ry Litovskoi SSR, 1963. 366 p. (MIRA 17:1)

1. Vsesoyuzmoye soveshchaniye po teorii i praktike blestyashchikh gal'vanopokrytiy, Vilnius, 1962.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00124(



"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

COUNTRY CATEGORY	: HUNGARY	
	: Cultivated Plants. General Problems.	М
ABS. JOUR.	: M7hBiol., No. 3, 1959, No. 10856	
AUTHOR INST.	: Petrasovits, I.	
TITLE	: On the Problems of Irrigated Agriculture in Humgary.	
ORIG. PUB.	: Agrartudomany, 1957, 9, No. 12, 15-23.	
APSTRACT	: No abstract.	

NYERGES, Georgette; LOSONICZY, Gy.; ERDOS, L.; PETRASS, Gy.

Significance of haemagglutination-inhiliting antibodies in the evaluation of vaccinial reactions. Acts. microbiol. acad. sci. Hung. 11 no.2s139-145 '64.

1. State Institute of Hygiene (Director: T. Bakaca), Budapest, and Laszlo Central Hospital for Infectious Diseases Director: J. Roman), Budapest.

HUNGARY

MOZSIK, Gyula, JAVOR, Tibor, DOBI, Sandor, <u>PETRASSY, Klara</u>, SZABO, Andras; Medical University of Debrecen, II. Medical Clinic (Debreceni Orvostudomanyi Egyetem, II. sz. Belklinika).

THE PROPERTY OF THE PROPERTY O

"The Development of Denervational Hypersensitivity in Patients Treated With Atropine."

Budapest, Kiserletes Orvostudomany, Vol. XVIII. No 4, Aug 66, pages 353-358.

Abstract: [Authors' Hungarian summary] The parotid secretion of patients under prolonged treatment with atropine was studied before the treatment. during 2-4 weeks of treatment and 3-5 days after its cessation. The basal secretion and the extent of reflex responses to citric acid solutions and to humoral stimulation (acetylcholine, noradrenalin, histamine) were determined. It was found that the inhibitory effect of atropine on the parotid secretion is decreased during prolonged atropine treatment; this is not caused by a decrease in the amount of atropine in these patients. During 2-4 weeks of treatment, basal secretion and response to submaxillar stimulations were greatly increased while the response to supermaxillar stimulation remained largely unchanged. Response to noradrenalin increased greatly, to acetylcholine to a lesser extent. 3-5 days after cessation of the atropine treatment, basal secretion and response to noradrenalin returned to their original level while the response to acetylcholine decreased to a lesser extent. The conclusion was reached that a "pharmacological denervational hypersensitivity develops during the 2-4 weeks of atropine treatment. 1/2/

\$/137/62/000/008/052/065 A006/A101

AUTHORS:

Grinkyavichyus, A. A., Petrauskas, S. M.

TITLE:

white bronze-plating

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 8, 1962, 127, abstract 81868 (In collection: "Vopr. usoversh. gal'vanopokrytiy", Vil'nyus, 1961,

TEXT: An analysis is made of the properties and use of white bronze (45%Sn and 55% Cu). The most expedient conditions of deposition are described. The process is conducted from an electrolyte containing (in g/l) Sn (in stannate form) 30 - 45, Cu (in the form of a complex cyanogen salt) 10 - 15, NaCN (free) 15 - 17, NaOH (free) 5 - 7 at 60 - 70°C, D_c 2 - 3 amp/dm²; Cu and Sn anodes in a 1:1 ratio. At D_c = 2 amp/dm² a 10 " thick layer is formed within 20 minutes. The coating is poreless. Good results were obtained by replacing the method of multilayer chrome and silver plating by the method of white bronze plating. There are 5 references.

[Abstracter's note: Complete translation]

N. Lukashina

Card 1/1

RAGUL'SKIS, Kazimeras [Ragulskis, Kazimieras]; FETRAUSKAS, V., red.

[Mechanisms on a vibrating base; problems of dynamics and stability] Mekhanismy na vibriruiushchem osnovanii; voprosy dinamiki i ustroichivosti. Kaumas, Akad. nauk Litovskoi SSR, 1963. 231 p.

(Mechanisms—Vibration)

(Mechanisms—Vibration)

KRASIL'NIKOVA, G.K., red.; KUGATOVA, G.F., red.; KUCHEROV, V.F., doktor khim. nauk, red.; LAUMYANSKAS, G., red.; PETRAUSKAS, V., red.; SEMENOVSKIY, A.V., red.; VENCRITE, T., red.; PERYAVICHYUS, A., tekhn. red.

[Chemistry of terpenes and terpenoids; papers presented at the All-Union Conference on Froblems in the Chemistry of Terpenes and Terpenoids in Vilnius on June 4-6 1959] Trudy Vsesoiuznogo soveshchaniia po voprosam khimii terpenov i terpenoidov, Vil'nius, Gos. izd-vo polit. i nauchm. lit-ry Litovskoi SSR, 1960. 247 p. (MIRA 15:7)

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1. Vsesovuznove soveshchaniye po voprosam khimii terpenov i terpenoidov, Vilnius, 1959. 2. Zaveduyushchiy sektorom Instituta khimii i khimicheskoy tekhnologii Akademii nauk Litovskoy SSR (for Kugatova).

(Terpenes) (Terpenoids)

KVEDARAS, A., red.; BASALYKAS, A., red.; BERGAS, V., red.; MALDZIUNAITE, S., red.; PETRAUSKAS, V., red.; SIBUTIS, A., red.; ZIFTYTE, E., red.; HANCEVICIUS, P., tekhn. red.

[Problems of the development of the lower Neman River; transactions] Nemano zemapio sutvarkymo Klausimei; [pranesimal]. Vilnius, Valstybine politines ir mokslines literaturos leidykla, 1961.
177 p. (MIRA 15:5)

SANDAR TANASARI DIRECTOR DE LA TRANSPORTION DE LA T

1. Konferencija Nemmo zemupio sutvarkymo ir apsaugos klausimais, Vilnius, 1960. (Neman River)

MATULIS, J., red.; ZIUGZDA, J., red.; JUCYS, A., red.; LASAS, V., red.; KORSAKAS, K., red.; FETRAUSKAS, V., red.; ISKAUSKAS, J., red.; FRIDAITE, I., red.; SARKA, S., tekhm. red.

[Science in Soviet Lithuania] Mokslas Tarybu Lietuvoje. Vilnius, Valstybine politines ir mokslimes literaturos leidykla, 1961.
334 p. (MIRA 15:3)

1. Lietuvos TSR Mokslu akademija, Vilna.

(Lithuania—Science)

L 46938-66 EWT(1)/EWT(n)/EWP(t)/ETI IJP(c) JD/AT

ACC NR: AP6015492 (N) SOURCE CODE: UR/0181/66/008/005/1616/1617

AUTHOR: Vishchakas, Yu. K.; Yushka, G. B.; Petravichus, A. D.; Matulenis, A. Yu.

ORG: Vil'nyus State University im. V. Kapsukas (Vil'nyusskiy gosudarstvesmyy universitet)

TITLE: The kinetics of forward photocurrent limited by a spatial charge in amorphous selenium

SOURCE: Fizika tverdogo tela, v. 8, no. 5, 1956, 1616-1517

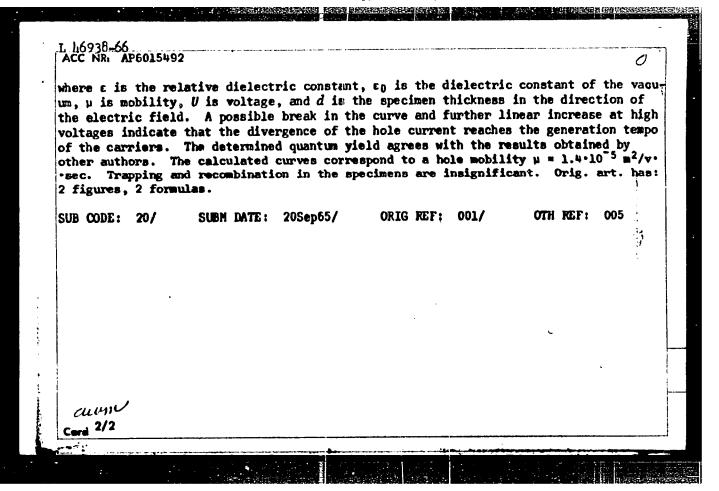
TOPIC TAGS: selenium, photoconductivity, current carrier, hole mobility

ABSTRACT: Amorphous Se with a specific resistivity of 10¹⁰ ohmem, a hole drift of >10⁻⁷ m²/v, a quantum yield of 0.1 to 1 (photon energy 2.5 to 3.0 ev), and a free-to-capture 1-holes ratio of >0.01 was examined. The experimental equipment included a pulse light source (ISSh-15, ISSh-100-3), a monochromator, and an oscillograph (input impedance 10 kohm, and capacitance 50 picofarad). Photocurrents were generated by constant voltage and by intermittent light. The density of the maximum photocurrent depends on the voltage, according to

$$j_0 = 1.21 \cdot \frac{9}{8} \cos_0 \mu \frac{U^1}{d^5},$$

Card 1/2

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"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001240

L 46029-66 EWT(d)/EWP(v)/EWP(h)/EWP(1) GD/BC

ACC NR: AT6017616 (N) SOURCE CODE: UR/0000/65/000/000/0226/0230

in skomatika skap <mark>l</mark>egislegiasjanika okob vi

AUTHOR: Alishauskas, A. V.; Motskus, I. B.; Petraytis, K. A.

21 B+1

ORG: none

TITLE: Establishing an extremum in a multivariable problem of optimal design

SOURCE: Vsesoyuznaya konferentsiya po teorii i praktike samonastraivayushchikhsya sistem. 1st, 1963. Samonastraivayushchiyesya sistemy (Adaptive control systems); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 226-230

TOPIC TAGS: optimization, optimal control system, production engineering

ABSTRACT: The problem of reducing manufacturing errors are minimized by solving a multivariable optimization problem and using various forms of the gradient method. The objective function is formulated using a penalty function, to account for the existing inequality constraints. The four optimization algorithms considered are: 1. relaxation—variation from the initial condition for each variable separately; 2. gradient—at each step, the variation is performed in the anti-gradient direction for a given step size; 3. optimal gradient—gradient, with a step down to the minimum of the objective function in the same direction; 4. accelerated gradient—optimal gradient for the first three steps. Next direction determined the first and third minimum. Graph—

Cord 1/2

PETRAYTITE, I.K. (g. Shyaulyay Litovskoy SSR) Instruments and aids for practical exercises in astronomical clubs. Fiz. v shkole 21 no.6:64-68 N-D '61. (MIRA 14:12)

(Astronomy -- Audio-visual sids)

TUBILYUS, Yonas Pyatro[Kubilius, Jonas]; PETRAYTIS, A.[Petraitis, A.], red.; KARVYALIS, V.[Karvelis, V.], tekum. red.

[Probability methods in the theory of numbers]Veroiatnostnye metody v teorii chisel, 2., dop. izd. Vil'nius, Gos.izd-vo polit. i nauchn. lithy Litovskoi SSR, 1962. 220 p.

(MIRA 16:3)

(Numbers, Theory of) (Probabilities)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

- 1. PETRAYFIS, I.P.
- 2. USSR (600)
- 4. Cattle
- 7. Raising cattle in stalls on the "Trishkiai" Farm. Sots. zhiv. 15 no. 5, 1953.

Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001240

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PETRATTITE, I.K.

Some problems arising in conducting astronomical observations in grades 5 to 9. Uch. sap. MGPI no.189:93-105 '62.

(MIRA 16:6)

(Astronomy-Study and teaching)